Bear Creek (1015) Use Attainability Analysis



Boone County Regional Sewer District 1314 North 7th Street Columbia, MO 65201-3902

Prepared by
Barr Engineering Company
July 2005

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Use Attainability Analysis

Boone County Regional Sewer District 1314 North 7th Street Columbia, MO 65201-3902

July 2005



Barr Engineering Company 3236 Emerald Lane Jefferson City, MO 65109 Phone: (573) 636-5331 Fax: (573) 636-5323

JUL 1 3 2005

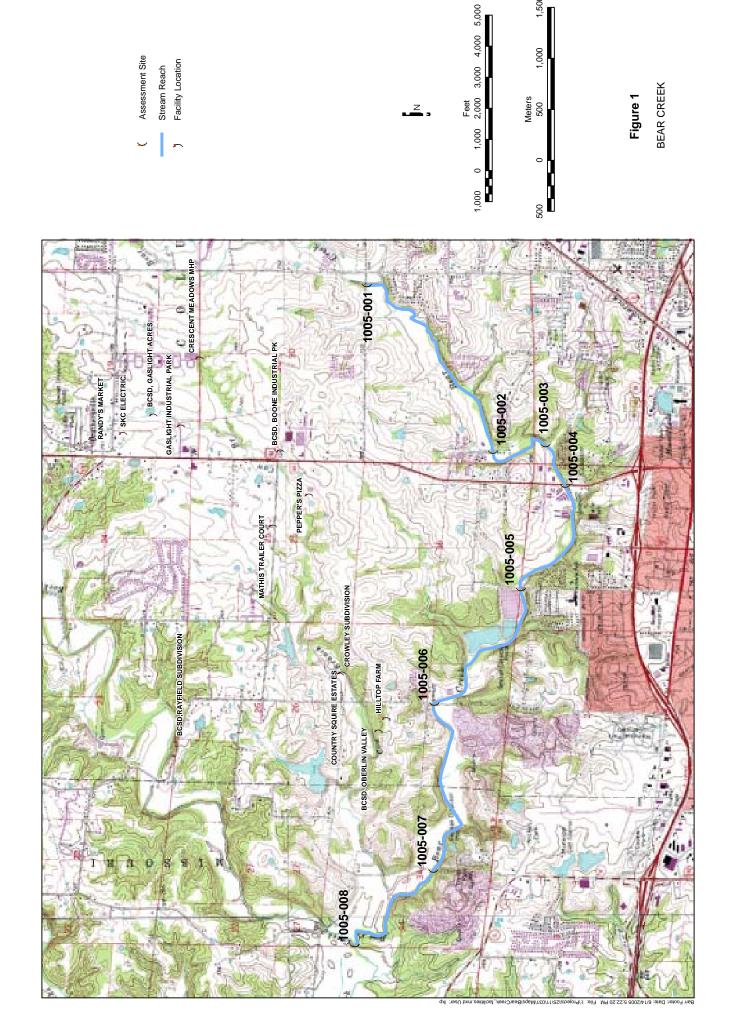
Field Data Sheets for Recreational Use Stream Surveys WATER PROTECTION FROCERAM

Data Sheet A - Water Body Identification

Water Body Name (from USGS 7.5' quad): Bear Creek
8-digit HUC: 10300102
Missouri WBID #: 1015
County: Boone
Upstream Legal Description: Bear at North line Section 31, T49N, R12W
Downstream Legal Description: Mouth located in NE 1/4 Section 33, T49N, R13W
Upstream Coordinates: UTM (Z15N) 560336E; 4315979N
Downstream Coordinates: UTM (Z15N) 553845E; 4316113N
Discharger Facility Name(s): Crowley Sudivision, Permit # MO0082147 BCSD, Gaslight Acres, Permit # MO0086606 Gaslight Industrial Park, Permit # MO0089532 BCSD, Boone Industrial Park, Permit # MO0092886 Crescent Meadows MHP, Permit # MO0095974 Country Squire Estates, Permit # MO0096580 Mathis Trailer Court, Permit # MO0099198 BCSD, Oberlin Valley, Permit # MO0117323 Hilltop Farm, Permit # MO0118273 Pepper's Pizza, Permit # MO0121215 Randy's Market, Permit # MO0124486 SKC Electric, Permit # MO0124494
Discharger Permit Number(s): See Above
Number of Sites Evaluated: 8
Name of Surveyor and Telephone Number: Alan Fandrey (573-638-5013)
Organization: Barr Engineering Company
Position: Civil Engineer

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed:	(Nan)	Hauchy	Date:	6/14/05	



1,500

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

_							
	Missouri WBID #: 1015-	001				scription: Bear Creek at up sing at North line Section 3	
	Site GPS Coordinates: 5	60336E; 4315979N	I	- Boone Co			,, ,
	Date & Time: 5/28/05 - 1	2:30 p.m.		Facility Na	me: S	ee Table 2	
	Personnel: Tim J. Fandre	y / Alan J. Fandrey		Permit Nur	nber:	See Table 2	
	Current Weather Condition	ons: Clear - 70s		Weather C	onditio	ons for Past 7 days: Last ra	in on May 22
	Photo Ids: Upstream: 10	05-001US Dow	nstream	: 1005-001DS	Other:		
				<u>, </u>			
Use	s Observed*:					Γ	
	☐ Swimming	☐ Skin diving		SCUBA diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking		Boating		□ Wading	☐ Rafting
	Hunting	☐ Trapping		Fishing		None of the above	Other:
	rounding Conditions	s*: (Mark all that p	promote	or impede recreation	onal us	es. Attach photos of evider	nce or unusual
lem		☐ Plavgrounds	Пмр	OC conservation la	. da	☑ Urban areas	Campgrounds
	City/county parks				ius		<u> </u>
-	Boating accesses	State parks		ional forests		☐ Nature trails	⊠ Stairs/walkway
	No trespass sign	☐ Fence	☐ Stee	ep slopes		Other:	
Evi	dence of Human Use	e*:					
	⊠ Roads		nts	☐ Dock/platform	l	☐ Livestock Watering	RV / ATV Tracks
	Rope swings	☐ Camping Sites		☐ Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	☑ Other: Graffiti						
_					-		

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Data Sheet B - Site Characterization

Page Two ~ WBID #<u>1005-001</u>:

Riffle Widt	h (ft):	Length (ft):	Avg. Dep	th (ft):	Max. Depth (ft):	
☐ Run Wide	h (ft):	Length (ft);	Avg. Dep		Max. Depth (ft):	
Pool Widt	h (ft): 20-30	Length (ft): 30		th (ft): 0.3		
☐ Flow Prese		□ No		l (ft³/sec): < 1	Max. Depth (ft):	0.5
			Estimated	(π/sec): < 1		_
Downstream V	iew Physical	l Dimensions:				
	h (ft): 8.0	Length (ft):	Avg. Dep	th (ft): 0.2	Max. Depth (ft):	0.3
⊠ Run Widt	h (ft): 15	Length (ft): 10	<u></u>	th (ft): 0.5	Max, Depth (ft):	
Pool Widt	n (ft);	Length (ft):	Avg. Dep		Max, Depth (ft):	
⊠ Flow Prese	nt? X Yes	□No		(ft³/sec): see abo	_ ` `_	- ·
					<u> </u>	
bstrate*: (These						
50% Cobb	le 9	% Gravel	50% Sand	% Silt	% Mud/Clay	% Bedroo
			algal growth at the a	ssessment site)		
uatic Vegetation ater Character Odor:	stics*: (Mark	all that apply.)			C Others	
ater Character			☐ Chemical	⊠ None	Other:	
ater Character	stics*: (Mark ☐ Sewage	all that apply.)	☐ Chemical	⊠ None	Other:	
ater Character Odor: Color: Bottom Deposit: Surface Deposit:	stics*: (Mark Sewage Clear Sludge Oil	all that apply.) Musky Green Solids Scum	☐ Chemical ☐ Gray ☐ Fine sediment ☑ Foam		Other: Other: Other:	
ater Character Odor: Color: Bottom Deposit: Surface Deposit: omments: Please his information is no aprehensive underst ision on the recreat the undersigned tasheet is true a	stics*: (Mark Sewage Clear Sludge Oil attach addition to be used solunding of water on use analysis, hereby affind accurate.	all that apply.) Musky Green Solids Scum ional comments (ely for removal of a reconditions. Consect but may point to consect the consect of the best of the best of the consect of the best of the best of the best of the consect of the best of t	Chemical Gray Fine sediment Foam Gray Foam Gra	None Milky None None None ation from integration but rather tion is not intendent in the rather analysis or the content in the content	Other:	ı this UAA



Photo ID 1005-001US: Upstream (Bear Creek)



Photo ID 1005-001DS: Downstream (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1005-	-002				scription: Bear Creek at road, R12W; BID 14 - Boone (S
	Site GPS Coordinates: 5	58689E; 4314747N	1	Section 3	I, 149IN	1, K12W; BID 14 - Boone (County
	Date & Time: 5/26/05 - 1	0 a.m.		Facility N	ame: S	ee Table 2	
	Personnel: Tim J. Fandre	ey		Permit Nu	mber:	See Table 2	
	Current Weather Condition	ons: Partly cloudy	- 60s	Weather C	Conditio	ons for Past 7 days: Last ra	in on May 22
	Photo Ids: Upstream: 10	05-002US Dov	vnstreai	m: 1005-002DS	Other:		
l		'					
Us	es Observed*:	<u> </u>				T	
	☐ Swimming	☐ Skin diving		☐ SCUBA diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking		☐ Boating		□ Wading	Rafting
	☐ Hunting	☐ Trapping		☐ Fishing		None of the above	Other:
	rrounding Condition ns of interest.)	s*: (Mark all that _l	promote	e or impede recreat	ional us	ses. Attach photos of evider	nce or unusual
	☐ City/county parks	Playgrounds	□м	DC conservation la	ınds	☐ Urban areas	☐ Campgrounds
	☐ Boating accesses	☐ State parks	□ Na	ational forests		■ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☐ Fence	⊠ St	eep slopes		Other:	
Ev	idence of Human Use	2 * •					
	⊠ Roads		nts	☐ Dock/platforr	n	☐ Livestock Watering	RV / ATV Tracks
	☐ Rope swings	☐ Camping Sites	3	☐ Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	Other:						

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Data Sheet B - Site Characterization

Page Two - WBID #<u>1005-002</u>:

RunPoolFlowDownstreaRiffle	Width (ft): 1.0 Width (ft): Present? Yes	Length (ft): 5.0 Length (ft):	Avg, Depth (·	
⊠ Flow	Present? X Yes	Length (ft):		(ft): 0.1	Max. Depth (ft):	0.1
Ownstrea			Avg. Depth ((ft):	Max. Depth (ft):	·
		□ No	Estimated (fi	³ /sec): 0.5		
	am View Physica	al Dimensions:				
	Width (ft): 1.5	Length (ft): 2.0	Avg. Depth ((ft): 0.1	Max. Depth (ft):	0.15
Run	Width (ft):	Length (ft):	Avg. Depth ((ft):	Max. Depth (ft):	
☐ Pool	Width (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	·· , ,
Flow	Present? X Yes	□No	Estimated (fi	t ³ /sec): 0.5		
	(These values should Cobble 65		5% Sand	% Silt	% Mud/Clay	% Bedro
Very little.	etation*: (note am	ount of vegetation or alg	gal growth at the asse	essment site)		
Very little.	etation*: (note am	ount of vegetation or alg	gal growth at the asse	essment site)		
			gal growth at the asse	essment site)		
	etation*: (note am acteristics*: (Mar	k all that apply.)	gal growth at the asse	essment site)	Other:	
ter Chara	a cteristics*: (Mar	k all that apply.)			☐ Other: ☑ Other: brown	
ter Chara	a cteristics*: (Mar ☐ Sewage ☑ Clear	k all that apply.)	☐ Chemical	⊠ None		



Photo ID 1005-002US: Upstream (Bear Creek)



Photo ID 1005-002DS: Downstream (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 1005-	003				cription: Bear Creek in N	W 1/4 Section 6, T48N,
Site GPS Coordinates: 5:	58703E; 4314238N	ſ	R12W; BID	13 - 1	Boone County	
Date & Time: 5/26/05 - 9	:15 a.m.		Facility Nam	ne: Se	ee Table 2	
Personnel: Tim J. Fandre	у		Permit Num	ber: S	See Table 2	
Current Weather Condition	ons: Cloudy - 60s		Weather Con	nditio	ns for Past 7 days: Last ra	in on May 22
Photo Ids: Upstream: 10	05-003US Dow	nstream: 100	5-003DS C	Other:	1005-003O1; 1005-003O	2
			<u>'</u>			
Uses Observed*:	_					T
Swimming	☐ Skin diving		JBA diving		☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Воа	iting		☐ Wading	Rafting
☐ Hunting	☐ Trapping	☐ Fish	ning		None of the above	Other:
Surrounding Conditions	S*: (Mark all that p	promote or imp	oede recreation	nal us	es. Attach photos of evider	nce or unusual
City/county parks	☐ Playgrounds	☐ MDC cor	nservation land	ds	☐ Urban areas	Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests		☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	Fence	☐ Steep slop	pes		Other:	
Evidence of Human Use	·*•					
⊠ Roads	☑ Foot paths/prin	nts D	ock/platform		☐ Livestock Watering	RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	☐ Fi	re pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
Other: Clothing on ba	inks.					

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Data Sheet B - Site Characterization

Page Two – WBID #<u>1005-003</u>:

Riffle Wic	lth (ft): 3.0	Len	gth (ft): 5.0	Avg. Deptl	n (ft): 0.2	Max. Depth (ft)	: 0.2
☐ Run Wie	lth (ft):	Ler	gth (ft):	Avg. Depth	n (ft):	Max. Depth (ft)	
Pool Wid	th (ft):	Len	gth (ft):	Avg. Depth	n (ft):	Max. Depth (ft)	
Flow Pres	ent? Xes	□No			(ft³/sec): < 1		<u> </u>
Downstream '	View Physica	l Dimer	isions:		· ·		·
	th (ft):		gth (ft):	Avg. Depth	ı (ft):	Max. Depth (ft):	
Run Wid	th (ft): 1.5	Len	gth (ft): 5.0	Avg. Depth		Max. Depth (ft):	
Pool Wid	th (ft):	Len	gth (ft):	Avg. Depth		Max. Depth (ft):	
⊠ Flow Pres	ent? X Yes	□ No	· · · · · · · · · · · · · · · · · · ·		(ft ³ /sec): < 1	wax. Deput (it)	·
					·		 .
ibstrate*: (The				_ .			
40% Cob	ble S	% Gravel	50%	Sand	% Silt	% Mud/Clay	10% Bedroo
Quatic Vegetati Vegetation grow	ing on rocks.			growth at the ass	sessment site)		
vegetation grow	ing on rocks.	all that a	pply.)				
ater Character	istics*: (Mark	all that a	pply.) Musky] Chemical	⊠ None	Other:	
ater Character Odor: Color:	istics*: (Mark	all that a	pply.) Musky] Chemical	⊠ None □ Milky	Other;	
ater Character Odor: Color: Bottom Deposit: Surface Deposit:	istics*: (Mark Sewage Clear Sludge Oil	all that a	pply.) Musky Green Solids Scum	Chemical Gray Fine sediments Foam	None Milky None None	Other: Other: Other:	
ater Character Odor: Color: Bottom Deposit: Surface Deposit: Omments: Pleas rge concrete "bit his information is r mprehensive under ession on the recrea	istics*: (Mark Sewage Clear Sludge Oil e attach additeam" extendire to be used so standing of water tion use analysis d, hereby affi	ional cong acros	pply.) Musky Green Solids Examinates (inclusive creek on downwal of a recreems. Consequently point to condition	Chemical Gray Fine sediments Foam Iding informational use designs, this informations that need further	None Milky None None None See pictures nation but rather on is not intended	Other: Other: Other: Other: 1005-00301 & O is to provide a more to directly influence at effect another use.	<u>2.</u> a
Ater Character Odor: Color: Bottom Deposit: Surface Deposit: Omments: Pleas rge concrete "be his information is r imprehensive under cision on the recrea	istics*: (Mark Sewage Clear Sludge Oil e attach additeam" extendir	ional conditions but may	pply.) Musky Green Solids Scum mments (inclus creek on dovernoval of a recreens. Consequently point to condition the best of my	Chemical Gray Fine sediments Foam Iding informationstream side ational use desig by, this informations that need furth	None Milky None None None None Interpretation from interest in the interpretation but rather on is not intended ther analysis or the that all inform	Other: Other: Other: Other: 1005-00301 & O is to provide a more d to directly influence hat effect another use. mation reported o	2. a n this UAA
Ater Character Odor: Color: Bottom Deposit: Surface Deposit: Omments: Pleas rge concrete "be his information is r imprehensive under cision on the recrea	istics*: (Mark Sewage Clear Sludge Oil e attach additeam" extendir	ional conditions but may	pply.) Musky Green Solids Scum mments (inclus creek on dovernoval of a recreens. Consequently point to condition the best of my	Chemical Gray Fine sediments Foam Iding informationstream side ational use desig by, this informations that need furth	None Milky None None None None Interpretation from interest in the interpretation but rather on is not intended ther analysis or the that all inform	Other: Other: Other: Other: 1005-00301 & O is to provide a more to directly influence at effect another use.	2. a n this UAA



Photo ID 1005-003US: Upstream (Bear Creek)



Photo ID 1005-003DS: Downstream (Bear Creek)



Photo ID 1005-003O1: (Bear Creek)



Photo ID 1005-003O2: (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1005-	004		Site Locat	ion Des	scription: Bear Creek at Ro	oad crossing in NE 1/4
	Site GPS Coordinates: 5		ī	Section 1,	T48N,	R13W; BID 12A - Boone	County
			<u> </u>				
	Date & Time: 5/26/05 - 8	3:30 a.m.		Facility N	ame: S	ee Table 2	
	Personnel: Tim J. Fandre	у		Permit Nu	mber:	See Table 2	
	Current Weather Condition	ons: Cloudy - 60s		Weather C	Conditio	ons for Past 7 days: Last ra	in on May 22
	Photo Ids: Upstream: 10	05-004US Dov	vnstream	: 1005-004DS	Other:	1005-004O1; 1005-004O2	2; 1005-004O3
Us	es Observed*:						
	Swimming	☐ Skin diving		SCUBA diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking		Boating		□ Wading	Rafting
	☐ Hunting	☐ Trapping] Fishing		☑ None of the above	Other:
	O	S*: (Mark all that p	promote	or impede recreat	ional us	es. Attach photos of evider	nce or unusual
ter	ns of interest.)				•		
	☐ City/county parks	Playgrounds		OC conservation la	ınds	Urban areas	Campgrounds
	☐ Boating accesses	☐ State parks	☐ Nat	ional forests		☐ Nature trails	☑ Stairs/walkway
	☐ No trespass sign	☐ Fence	☐ Stee	ep slopes		Other:	
Εv	idence of Human Use	ò*•					
	⊠ Roads		nts	☐ Dock/platform	n	☐ Livestock Watering	RV / ATV Tracks
	☐ Rope swings	☐ Camping Sites	3	☐ Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	Other: Litter along ba	nks, dog tracks					
	·					·	

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #1005-004:

Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? ☑ Yes ☐ No Estimated (ft³/sec): < 1 Vinstream View Physical Dimensions: Riffle Width (ft): 7.0 Length (ft): 2.0 Avg. Depth (ft): 0.1 Max. Depth (ft): 0.15 Run Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft):		ı (ft): 11	Len	gth (ft): 8.0	Ave Γ	enth (ft): 0.1		lax. Depth (ft):	0.2
Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? ☑ Yes ☐ No Estimated (ft³/sec): < 1 Finstream View Physical Dimensions: Riffle Width (ft): 7.0 Length (ft): 2.0 Avg. Depth (ft): 0.1 Max. Depth (ft): 0.15 Rum Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): 0.5 Flow Present? ☒ Yes ☐ No Estimated (ft³/sec): < 1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedreit of vegetation*: (note amount of vegetation or algal growth at the assessment site) at of vegetation.	□ Run Width					<u> </u>				V.2
Flow Present? Yes No Estimated (ft³/sec): < 1 Finatream View Physical Dimensions: Riffle Width (ft): 7.0 Length (ft): 2.0 Avg. Depth (ft): 0.1 Max. Depth (ft): 0.15 Run Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? Yes No Estimated (ft³/sec): < 1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) at of vegetation.		<u> </u>								 .
Riffle Width (ft): 7.0 Length (ft): 2.0 Avg. Depth (ft): 0.1 Max. Depth (ft): 0.15 Run Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? Yes No Estimated (ft³/sec): <1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) at of vegetation.		<u> </u>		<u></u>	_		`		lax. Depth (ft):	
Riffle Width (ft): 7.0 Length (ft): 2.0 Avg. Depth (ft): 0.1 Max. Depth (ft): 0.15 Run Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? Yes No Estimated (ft³/sec): <1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) or of vegetation.	Flow Preser	II. Yes L			Estima —	ted (ft	/sec): < 1			
Riffle Width (ft): 7.0 Length (ft): 2.0 Avg. Depth (ft): 0.1 Max. Depth (ft): 0.15 Run Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? Yes No Estimated (ft³/sec): <1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) or of vegetation.	Downstream Vi	ew Physical T	Jimen	sions:						
Run Width (ft): 1.5 Length (ft): 3.0 Avg. Depth (ft): 0.35 Max. Depth (ft): 0.5 Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? Yes No Estimated (ft³/sec): <1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) at C Vegetation.					Avg, D	epth (1.0 :(f)		lax. Depth (ft):	0.15
Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Flow Present? Yes No Estimated (ft³/sec): <1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) at the values of vegetation.	□ Run Width	(ft): 1.5	Leng	eth (ft): 3.0				_		
Flow Present? Yes No Estimated (ft³/sec): <1 ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) of vegetation.		<u> </u>			··-		<u> </u>	-		
ate*: (These values should add up to 100%.) 60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedrate Vegetation*: (note amount of vegetation or algal growth at the assessment site) at of vegetation.		'		5m (1t).			<u> </u>		tax. Depth (ft):	
60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedra Comparison of the second of t		u. Zg ies L	<u> </u>	<u> </u>		tea (n	/sec); < 1			
60% Cobble 35% Gravel 2% Sand % Silt 3% Mud/Clay % Bedra Comparison of the second of t	bstrate*: (These	values should ad	d un to	100%)						
c Vegetation*: (note amount of vegetation or algal growth at the assessment site) of vegetation.					% Sand		% Silt	3% 1	Mud/Clay	% Redroc
	iter Characteris						14-		<u></u>	
Those Other:		I I Sewage	∐ I	Musky	Chemical		Nonc Nonc		Other:	
Gray Gray Gray	Odor:									·
Personal Mod Ma	Odor: Color:	⊠ Clear			Gray	-				
	Odor: Color: Bottom Deposit:	☐ Clear☐ Sludge		Solids	Gray Fine sedim	ents	None None		Other: Other:	
or: Sewage Musky Chemical Nonc Other: Or: Clear Green Gray Milky Other: tom Deposit: Sludge Solids Fine sediments None Other:	nei Characteri				Chemical		None		 Other:	
Personal Mod Ma	Odor: Color:	⊠ Clear			Gray	ente			Other:	
ALC ACCIONAL TATABLE DATABLE INTERVALLED LA LINOUN LA LI	Odor: Color: Bottom Deposit:	☐ Clear☐ Sludge		Solids	Gray Fine sedim	ents	None None		Other: Other:	
face Deposit: Oil Scum Foam None Other:	Odor: Color:	⊠ Clear		Solids	Gray	ents			Other: Other:	
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts.	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please	□ Clear □ Sludge □ Oil attach addition		Solids Scum mments (inc	Gray Fine sedim Foam	·	None None	erviews	Other: Other: Other:	1.
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts.	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please face Deposit: O	☐ Clear ☐ Sludge ☐ Oil attach additional and Scum in	nal co	Solids Scum triments (inc nant parts.	☐ Gray ☐ Fine sedim ☐ Foam	matie	None ☐ None on from inte		Other: Other: Other: to this form	1.
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts. Formation is not to be used solely for removal of a recreational use designation but rather is to provide a more ensive understanding of water conditions. Consequently, this information is not intended to directly influence a	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please face Deposit: O is information is no prehensive understa	☐ Clear ☐ Sludge ☐ Oil attach addition oil and Scum in to be used solely anding of water or	nal constagr	Solids Scum mments (including parts.) moval of a recons. Conseque	Gray Fine sedim Foam luding info	rmatio	None None non from inte	r is to pr	Other: Other: Other: to this form	
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts.	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please face Deposit: O is information is no prehensive understa	☐ Clear ☐ Sludge ☐ Oil attach addition oil and Scum in to be used solely anding of water or	nal constagr	Solids Scum mments (including parts.) moval of a recons. Conseque	Gray Fine sedim Foam luding info	rmatio	None None non from inte	r is to pr	Other: Other: Other: to this form	
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts. Formation is not to be used solely for removal of a recreational use designation but rather is to provide a more ensive understanding of water conditions. Consequently, this information is not intended to directly influence a on the recreation use analysis but may point to conditions that need further analysis or that effect another use. Indersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA.	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please face Deposit: O is information is no prehensive understa sion on the recreation	Clear Sludge Oil attach addition oil and Scum in t to be used solely anding of water comuse analysis bu hereby affirm	anal constagr	Solids Scum Traments (included in the content of a recons. Consequence point to conditions.	Gray Fine sedim Foam cluding info	rmation designation furthe	None None n from inte	r is to pred to dire	Other: Other: Other: other: other: ovide a more ectly influence:	a
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts. Tormation is not to be used solely for removal of a recreational use designation but rather is to provide a more ensive understanding of water conditions. Consequently, this information is not intended to directly influence a on the recreation use analysis but may point to conditions that need further analysis or that effect another use. Indersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA seet is true and accurate.	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please face Deposit: O is information is no prehensive understa sion on the recreation he undersigned, asheet is true an	Clear Sludge Oil attach addition oil and Scum in to be used solely anding of water con use analysis but, hereby affirm ad accurate.	nal constagr	Solids Soum Imments (inchant parts. moval of a recons. Consequer point to condit	Gray Fine sedim Foam cluding info	rmation designa mation furthe ge, th	None None n from intention but rathe is not intender analysis or the state all informations.	r is to pred to dire hat effect mation	Other: Other: Other: other: ovide a more ectly influence at another use.	a n this UAA
ents: Please attach additional comments (including information from interviews) to this form. Deposit: Oil and Scum in stagnant parts. Formation is not to be used solely for removal of a recreational use designation but rather is to provide a more ensive understanding of water conditions. Consequently, this information is not intended to directly influence a on the recreation use analysis but may point to conditions that need further analysis or that effect another use. Indersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA.	Odor: Color: Bottom Deposit: Surface Deposit: mments: Please face Deposit: O is information is no prehensive understa sion on the recreation he undersigned, asheet is true an	Clear Sludge Oil attach addition oil and Scum in to be used solely anding of water con use analysis but, hereby affirm ad accurate.	nal constagr	Solids Soum Imments (inchant parts. moval of a recons. Consequer point to condit	Gray Fine sedim Foam cluding info	rmation designa mation furthe ge, th	None None n from intention but rathe is not intender analysis or the state all informations.	r is to pred to dire hat effect mation	Other: Other: Other: other: ovide a more ectly influence at another use.	a n this UAA



Photo ID 1005-004US: Upstream (Bear Creek)



Photo ID 1005-004DS: Downstream (Bear Creek)



Photo ID 1005-004O1: Drain Pipe (Bear Creek)



Photo ID 1005-004O2: Bear Creek



Photo ID 1005-004O3: Drain Pipe (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 1005-	-005			escription: Bear Creek at ro	
	Site GPS Coordinates: 5	57343E; 4314479N	1	Section 1, T48N	I, R13W; BID 15 - Boone C	ounty
	Date & Time: 5/26/05 - 1	0:50 a.m.		Facility Name:	See Table 2	
	Personnel: Tim J. Fandre	ey .		Permit Number:	See Table 2	
	Current Weather Condition	ons: Partly cloudy -	· 70s	Weather Condit	ions for Past 7 days: Last ra	in on May 22
	Photo Ids: Upstream: 10	05-005US Dow	vnstream: 100	5-005DS Other	r: 1005-005O	
Us	es Observed*:					
	Swimming	☐ Skin diving	□ scu	JBA diving	☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking	☐ Boa	ating	□ Wading	Rafting
	Hunting	☐ Trapping	⊠ Fish	ning	☐ None of the above	Other:
Su	rraunding Canditian	S*• (Mark all that s	promote or imp	nede recreational y	uses. Attach photos of evide	ace or unusual
	ns of interest.)	5 . (Wark an that p	nomote of mi	bede recreationar t	ises. Attach photos of eviden	nce of unusual
	☐ City/county parks	Playgrounds	☐ MDC cor	servation lands	☐ Urban areas	Campgrounds
	☐ Boating accesses	☐ State parks	☐ National	forests	■ Nature trails	⊠ Stairs/walkway
	☐ No trespass sign	☐ Fence	☐ Steep slop	pes	Other:	
Ev	idence of Human Use	2 *:				
	⊠ Roads	☐ Foot paths/prin	nts D	ock/platform	☐ Livestock Watering	RV / ATV Tracks
	☐ Rope swings	☐ Camping Sites	☐ Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
	Other:					

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #1005-005:

Riffle	Width (ft):	Length	(ft):	A	vg. Depth	(ft):	N	lax. Depth (ft)	
Run	Width (ft	: 11	Length	(ft): 20	F	vg. Depth	(ft): 0.2		fax. Depth (ft):	
Pool	Width (ft);	Length	(ft):		vg. Depth	(ft):		fax. Depth (ft)	
⊠ Flow	Present?	⊠ Yes	□ No		 -		t ³ /sec): < 1			<u> </u>
						<u> </u>				
Downstrea										
	Width (ft	_	Length	· <u>·</u>		vg. Depth	· ·	<u>N</u>	fax. Depth (ft)	
	Width (ft	l:	Length	(ft): 		vg. Depth	(ft):	N	fax. Depth (ft)	:
⊠ Pool	Width (ft	: 14	Length	(ft): 17	I	vg. Depth	(ft): 0.3	M	lax. Depth (ft)	0.45
⊠ Flow	Present?	⊠ Yes	☐ No		I	stimated (f	t ³ /sec): < 1			- "
hatmataka 4	TT	,	11	^^/	<u> </u>					
bstrate*: (Cobble		add up to 10 % Gravel	0%.)	% Sand		% Silt	07. 1	Mud/Clay	70% Bedroc
20%										
quatic Vege Vegetation o	tation* on rocks.	(note amo	ount of vegeta	tion or a	lgal growt	n at the asse	essment site) _			
quatic Vege Vegetation o	n rocks.				lgal growt	n at the asse	essment site) _			
quatic Vege	on rocks.		call that appl	y.)					Other:	
quatic Vege Vegetation o	on rocks. cteristic	: s*: (Marl		y.) sky	☐ Cher	nical	None None None None None		Other:	
vegetation of the control of the con	cteristic	es *: (Mark	call that appl	y.) sky en	☐ Cher	nical			Other: Other:	
vegetation of ater Characodor:	cteristic	:s*: (Mark] Sewage ☑ Clear	call that appl	y.) sky en ids	☐ Cher	nical , sediments	⊠ None		Other:	
ater Characodor: Color: Bottom Deposition of Deposition	cteristic cteristic cosit: cosit:	s*: (Mark Sewage Clear Sludge Oil ach addi be used so ing of water use analysi	all that apply Mu Gre Solid Scultional common conditions. Substitute to the	y.) sky en ds m nents (i val of a r Consequent to con	Cher Gray Fine Foar neluding	sediments informat d use design	None ☐ Milky ☐ None ☐ None ☐ None ☐ not intendent is not intendent analysis or the	r is to p d to dir hat effe	Other: Other: Other: other: s) to this formation of the control of	
ater Chara Odor: Color: Bottom Depo Surface Dep omments: P this information imprehensive uncision on the resistance is to	cteristic cteristic cosit: cosit:	s*: (Mark Sewage Clear Sludge Oil ach addi be used so ing of wate use analysi ereby aff accurate	call that apply Mu. Gre Solid Scultional common conditions. s but may positive to the ce.	y.) sky en ids m nents (i val of a r Consequent to con	Cher Gray Fine Foar neluding recreationa uently, this ditions tha	sediments n informat d use design information t need furth wledge, t	None ☐ Milky ☐ None ☐ None ☐ None ☐ not intendent is not intendent analysis or the content of	r is to p d to dir hat effe mation	Other: Other: Other: other: s) to this formation of the control of	a On this UAA
ater Chara Odor: Color: Bottom Depo Surface Dep omments: P this information imprehensive uncision on the resistance is to	cteristic cteristic cosit: cosit:	s*: (Mark Sewage Clear Sludge Oil ach addi be used so ing of wate use analysi ereby aff accurate	call that apply Mu. Gre Solid Scultional common conditions. s but may positive to the ce.	y.) sky en ids m nents (i val of a r Consequent to con	Cher Gray Fine Foar neluding recreationa uently, this ditions tha	sediments n informat d use design information t need furth wledge, t	None ☐ Milky ☐ None ☐ None ☐ None ☐ not intendent is not intendent analysis or the	r is to p d to dir hat effe mation	Other: Other: Other: other: s) to this formation of the control of	a On this UAA



Photo ID 1005-005US: Upstream (Bear Creek)



Photo ID 1005-005DS: Downstream (Bear Creek)



Photo ID 1005-005O: Man dipping for minnows (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 1005-	006				cription: Bear Creek at roa, R13W; BID 16 - Boone G	Č
Site GPS Coordinates: 5	56206E; 4315326N	N	Section 33,	17711	, K15 W, BID 10 - Boolle C	Jounty
Date & Time: 5/26/05 - 1	1:20 a.m.		Facility Nat	ne: S	ee Table 2	
Personnel: Tim J. Fandre	У		Permit Nun	ber: S	See Table 2	
Current Weather Condition	ons: Partly cloudy -	- 70s	Weather Co	nditio	ons for Past 7 days: Last ra	in on May 22
Photo Ids: Upstream: 10	05-006US Dow	vnstream: 10	05-006DS	Other:	1005-006O	
	L					
Uses Observed*:				-		
Swimming	☐ Skin diving	\square sc	UBA diving		☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Во	ating		□ Wading	Rafting
Hunting	☐ Trapping	☐ Fis	hing		None of the above	Other:
Describe: (include numbe	er of individuals rec	reating, frequ	iency of use, p	noto-a	locumentation of evidence	of recreational uses, etc.)
Surrounding Condition	S*: (Mark all that r	oromote or im	nede recreatio	nal us	es Attach photos of evider	nce or unusual
tems of interest.)	2 (111mm mm mm)		.poud roorours	1141 00	os racional process or ovrace	or anasaar
☐ City/county parks	☐ Playgrounds	☐ MDC co	nservation lan	ds	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests		☑ Nature trails	⊠ Stairs/walkway
☐ No trespass sign	⊠ Fence	☐ Steep slo	opes		Other:	
		•		'		
Evidence of Human Use	2*:					
⊠ Roads	☐ Foot paths/prin	nts 🔲 I	Oock/platform		☐ Livestock Watering	RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	s	ire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
Other:						
						

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #1005-006:

	eam Morj Upstream			imensions:					
	Riffle	Width (f		Length (Avg. Depth (ft):	Max. Depth (ft):
	Run	Width (f	t):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft	
	⊠ Pool	Width (f	t): 3.0	Length (ft): 2.0	Avg. Depth (ft): 0.2	Max. Depth (fit	:): 0.25
	⊠ Flow	Present?	⊠ Yes	□ No		Estimated (ft	³ /sec): < 1		·
	Downstre:	am Viev	v Physica	l Dimensio	ne:				
:	⊠ Riffle	Width (f		Length (<u></u>	Avg. Depth (ft): 0.1	Max. Depth (ft	0; 0,1
	Run	Width (f	t):	Length (Avg. Depth ((ft):	Max. Depth (ft	
	Pool	Width (f	t):	Length (Avg. Depth (Max. Depth (ft	· .
	⊠ Flow	Present?	⊠ Yes	☐ No		Estimated (ft	· · · · · · · · · · · · · · · · · · ·		· · · · · ·
					•				
Su		(These va		add up to 100			ne out	A/ > 4 1/G1	
		6 CODDIE	20	% Gravel	60% Sand		% Silt	% Mud/Clay	% Bedrock
**/	Algae near					_			
W	Odor:	acteristi	cs*: (Mar ☐ Sewage	all that apply		mical	None None	Other:	
	Color:		Clear	☐ Ivids			Milky	Other: brow	vn
	Bottom De		Sludge			sediments	None	Other:	W11
	Surface De	posit:	Oil	Scur			None None	Other:	
*T] cor dec	nis information inprehensive dision on the	on is not t understan recreation signed, I true and	o be used siding of wat use analys nereby af accurat	olely for remover conditions. is but may point firm to the e.	val of a recreation. Consequently, thi nt to conditions th best of my kne	al use design is informatio at need furth owledge, t	nation but rathe n is not intende er analysis or t hat all infor	erviews) to this for is to provide a more ed to directly influence that effect another use mation reported	e ce a c. on this UAA
Or	ganization	:		BEC		Position	n: Eng.		



Photo ID 1005-006US: Upstream (Bear Creek)



Photo ID 1005-006DS: Downstream (Bear Creek)



Photo ID 1005-006O: Pipe (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	007					ad crossing S 1/2 Section
e GPS Coordinates: 5	54421E; 4315332N	1	34, T49N, R	RI3W; BI	D 17 - Boone County	
re & Time: 5/26/05 - 1	1:50 a.m.		Facility Nan	ne: See T	able 2	
sonnel: Tim J. Fandre	У		Permit Num	ber: See	Table 2	
rent Weather Condition	ons: Clear - 70s		Weather Co	nditions f	For Past 7 days: Last ra	in on May 22
oto Ids: Upstream: 10	05-007US Dov	vnstream:	1005-007DS (Other:		
	1		1			
Swimming	☐ Skin diving		SCUBA diving		Tubing	☐ Water skiing
Wind surfing	☐ Kayaking		Boating		Wading	Rafting
Hunting	☐ Trapping		Fishing		None of the above	Other:
_	S*: (Mark all that _l	promote of	r impede recreation	nal uses.	Attach photos of evider	nce or unusual
	□ p1	Пмрс	· · · · · · · · · · · · · · · · · · ·	<u>.</u>	T	П С 1-
						Campgrounds
	1					☐ Stairs/walkway
No trespass sign	Fence	⊠ Steep	slopes			
nce of Human Use	5 *•					
Roads	Foot paths/pri	nts	☐ Dock/platform		Livestock Watering	RV / ATV Tracks
Rope swings	☐ Camping Sites	, [☐ Fire pit/ring		NPDES Discharge	I — I
Rope swings	in cumping sites		= F8		111 BES Bisenarge	☐ Fishing Tackle
	sonnel: Tim J. Fandre rrent Weather Condition to Ids: Upstream: 10 Dbserved*: Swimming Wind surfing Hunting Scribe: (include number cinterest.) City/county parks Boating accesses No trespass sign nce of Human User Roads	rent Weather Conditions: Clear - 70s to Ids: Upstream: 1005-007US Dov Dbserved*: Swimming Skin diving Kayaking Hunting Trapping scribe: (include number of individuals recorded in the scribe: (include number of individuals recorded in the scribe: State parks State parks State parks State parks Fence Foot paths/pri	re & Time: 5/26/05 - 11:50 a.m. Sonnel: Tim J. Fandrey	rent Weather Conditions: Clear - 70s Weather Conditions: Downstream: 1005-007DS Observed*: Swimming	re & Time: 5/26/05 - 11:50 a.m. Facility Name: See Told Sonnel: Tim J. Fandrey Permit Number: See Total Section of Italian Section 1. See Total See Total Section 1. See Total	Facility Name: See Table 2 Sonnel: Tim J. Fandrey Permit Number: See Table 2 Trent Weather Conditions: Clear - 70s Weather Conditions for Past 7 days: Last rate of Ids: Upstream: 1005-007US Downstream: 1005-007DS Other: Other:

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #<u>1005-007</u>;

⊠ Riffle Width	(ft): 2.0	Length (ft):	5.0 A	vg. Depth (f	t): 0.15	Ma	ax. Depth (ft):	0.2
Run Width	 (ft):	Length (ft):	A	vg. Depth (f	t):	Ma	ax. Depth (ft):	
☐ Pool Width	(ft):	Length (ft):	A	vg. Depth (f	t):	Ma	ax. Depth (ft):	
☐ Flow Preser	t? 🛚 Yes	□No	E	stimated (ft ³	/sec): < 1			
Downstream Vi	or Dhysia	al Dimonsions						
	(ft): 2.0	Length (ft):	10 A	vg. Depth (1	t): 0.2	M	ax. Depth (ft):	0.25
Run Width	(ft):	Length (ft):	Λ	vg. Depth (1	t):	M	ax. Depth (ft):	
Pool Width	 (ft):	Length (ft):	A	vg. Depth (f	t):	M	ax. Depth (ft):	_
☐ Flow Preser	t? Xes	□No	E	stimated (ft ³	/sec): < 1			
bstrate*: (These	values shoule	d add up to 100%.)						
		% Gravel	20% Sand		% Silt	% N	/fud/Clay	% Bedro
Algae near bank.	n*: (note am	ount of vegetation	or algal growtl	h at the asses	sment site)			
uatic Vegetatio	n*: (note am	ount of vegetation	or algal growtl		sment site)		Other:	
uatic Vegetatio Algae near bank. ater Characteri	n*: (note am	ount of vegetation		nical			Other:	
uatic Vegetatio Algae near bank. ater Characteri Odor:	n*: (note am stics*: (Man	ount of vegetation	☐ Cher ☐ Gray	nical	None			
uatic Vegetatio Algae near bank. ater Characteri Odor: Color:	n*: (note am stics*: (Man Sewage	ek all that apply.) Musky	☐ Cher ☐ Gray	mical	⊠ None □ Milky		Other:	
uatic Vegetatio Algae near bank. ater Characteri Odor: Color: Bottom Deposit:	stics*: (Mar Sewage Clear Sludge Oil attach add t to be used sanding of wa on use analys	k all that apply.) Musky Green Solids Scum itional comment	Cher Gray Fine Foar s (including	sediments n g informati al use design s information t need furthe	None Milky None None non from interaction but rather is not intender analysis or to	er is to pr ed to dire that effec	Other: Other: Other: other: other: ovide a more ectly influence a mother use.	a
ater Characteri Odor: Color: Bottom Deposit: Surface Deposit: omments: Please hall fish. his information is no inprehensive understision on the recreat	stics*: (Man Sewage Clear Sludge Oil attach add t to be used sanding of wa on use analys , hereby a nd accura	k all that apply.) Musky Green Solids Scum itional comment solely for removal ceter conditions. Coresis but may point to	Cher Gray Fine Foan s (including of a recreational sequently, this conditions that	sediments n g informati al use design s information at need further	None Milky None None None on from integration but rather is not intender analysis or the content and the content an	er is to proped to direct that effect remation	Other: Other: Other: Other: other: ovide a more ectly influence another use.	a On this UA



Photo ID 1005-007US: Upstream (Bear Creek)



Photo ID 1005-007DS: Downstream (Bear Creek)

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

			1		
Missouri WBID #: 1015-	-008			escription: Bear Creek at m W - Boone County	outh in NE 1/4 Section
Site GPS Coordinates: 5	553845E; 4316113N	1	33, 1471, 113	v - Boone County	
Date & Time: 6/27/05 - 6	6 p.m.		Facility Name:	See Table 2	
Personnel: Alan J. Fandr	rey		Permit Number:	See Table 2	
Current Weather Condition	ons: Clear - 90s		Weather Condit	ions for Past 7 days: Last ra	in on June 13
Photo Ids: Upstream: 10	005-008US Dov	vnstream: -	Othe	r:	
	I		I		
Jses Observed*:					
Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Во	ating	□ Wading	Rafting
Hunting	☐ Trapping	□ Fis	hing	☑ None of the above	Other:
Describe: (include numbe	er of individuals rec	reating, frequ	ency of use, photo-	-documentation of evidence	of recreational uses, etc.)
Surrounding Condition tems of interest.)	s*: (Mark all that p	promote or im	pede recreational u	uses. Attach photos of evide	nce or unusual
☐ City/county parks	Playgrounds	☐ MDC co	nservation lands	☐ Urban areas	Campgrounds
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway
No trespass sign ■	Fence	☑ Steep slo	opes	Other: Agriculture	-
Evidence of Human Use	e*:	-	-	- -	
Roads		nte			
☐ Rope swings	☐ Foot paths/pri		Oock/platform	☐ Livestock Watering	□ RV / ATV Tracks
Trope swings	☐ Foot paths/prin		Oock/platform Fire pit/ring	☐ Livestock Watering ☐ NPDES Discharge	RV / ATV Tracks
Other:	1 1				

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

Page Two - WBID #1005-008:

ream Morpholog <u>Upstream Vie</u> w l		imensions:					
Riffle Width (Length (ft):	Av	vg. Depth (1	ft):	Max. Depth (ft)	
Run Width (ft):	Length (ft):	Av	vg. Depth (1	ft):	Max. Depth (ft)	
Pool Width (ft): 10-20	Length (ft): 80	Av	vg. Depth (1	ft): 1.5	Max. Depth (ft)	: 2,4
☐ Flow Present	Yes	□ No			/sec): < 0.5		
Downstream Vie							
Riffle Width (_	Length (ft):		vg. Depth (1		Max. Depth (ft)	···
Run Width (Length (ft):	A\	vg. Depth (1	ft): ————-	Max. Depth (ft)	!
Pool Width (ft): 	Length (ft):	Av	vg. Depth (1	ft):	Max. Depth (ft)	:
Flow Present	Yes	□ No	Es	timated (ft ³	/sec):		
hatvatak. 🙉	-1	. *1				• • • • • • • • • • • • • • • • • • • •	
bstrate*: (These v		add up to 100%.) % Gravel	% Sand		% Silt	100% Mud/Clay	% Bedroc
·	·					100,01110000103	7# Boaro.
uatic Vegetation Some algae.	· ·		algal growth	at the asses	ssment site)		
Some algae. ater Characterist	ics*: (Mark	all that apply.)				Other	
Some algae. ater Characterist	ics*: (Mark □ Sewage	all that apply.)	☐ Chem		None None None None None	Other:	
Some algae. ater Characterist Odor:	ics*: (Mark □ Sewage □ Clear	all that apply.)	Chem	ical	NoneMilky	Other:	
ater Characterist Odor: Color: Bottom Deposit: Surface Deposit:	ics*: (Mark ☐ Sewage ☐ Clear ☐ Sludge ☐ Oil	all that apply.) Musky Green Solids Scum	Chem. Gray Fine so	ical ediments	NoneMilkyNoneNone	Other: Other: Other:	
ater Characterist Odor: Color: Bottom Deposit: Surface Deposit: omments: Please ats. Shackelfored in eek. his information is not inprehensive understantision on the recreation the undersigned,	ics*: (Mark Sewage Clear Sludge Oil ttach addit dictates that to be used so ding of wate a use analysis	all that apply.) Musky Green Solids Scum ional comments (at as a child she, solid she	Chemics Gray Fine so Foam Foam Foam Foam Foam Foam Foam Foam	ediments information d friends use designation need furthe	None	Other:	of Bear
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